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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09 747,850	12 21 2000	Martin Jager	99 044NUT	4425
75	90 08 23 2002			
ProPat LLC		EXAMINER		
2912 CROSBY Charlotte, NC			PRATT, HELEN F	
			ART UNIT	PAPER NUMBER
			1761	17

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/747,850	JAGER ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Helen F. Pratt	1761			
 Period for	The MAILING DATE of this communication app Reply	ears on the cover sheet with the	e correspondence address			
THE M - Extens after S - If the p - If NO p - Failure - Any re	PRTENED STATUTORY PERIOD FOR REPLY ALLING DATE OF THIS COMMUNICATION. It is is not time may be available under the provisions of 37 CFR 1.13 IX (6) MONTHS from the mailing date of this communication. It is is pecified above is less than thirty (30) days, a reply seriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, poly received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) d vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDOI	timely filed lays will be considered timely, om the mailing date of this communication. NED (35 U.S.C. § 133).			
1)	Responsive to communication(s) filed on	·				
2a) ☐		is action is non-final.				
3)	,—					
Dispositio	on of Claims					
4) 🖸 (Claim(s) $1-11$ is/are pending in the application					
4	a) Of the above claim(s) is/are withdraw	vn from consideration.				
5) 🗌 (Claim(s) is/are allowed.					
6)[] (Claim(s) <u>1-11</u> is/are rejected.					
7) 🗌 (Claim(s) is/are objected to.					
8) 🗌 (Claim(s) are subject to restriction and/or	r election requirement.				
Applicatio	n Papers					
9)[] T	he specification is objected to by the Examiner	r.				
10)[] T	he drawing(s) filed on is/are: a)⊟ accep	ted or b) objected to by the Ex	kaminer.			
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
11) 🗌 T	he proposed drawing correction filed on	is: a)☐ approved b)☐ disapp	proved by the Examiner			
	If approved, corrected drawings are required in rep	ly to this Office action.				
12) 🗌 T	he oath or declaration is objected to by the Exa	aminer.				
Priority ur	nder 35 U.S.C. §§ 119 and 120					
13) 🔣 🛚 A	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119	(a)-(d) or (f).			
a)[∑	All b) Some * c) None of:					
1	.⊠ Certified copies of the priority documents	s have been received.				
2	2. Certified copies of the priority documents		ation No.			
3	 Copies of the certified copies of the prior application from the International Bur 	ity documents have been recei				
	ee the attached detailed Office action for a list	,				
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Attachment(_				
) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) at in this case of attempts 2007 of 444 (Pagent).		ary (PTO-413) Paper No(s) al Patent Application (PTO-152)			



Art Unit: 1761

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 4, 5, 6, 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 2, 4, 5, 6 is indefinite in the use of an incorrect Markush grouping in the use of the phrase "selected from one or more of the following". The correct phrase is "selected from the group consisting of. ". Also, the claims should not contain parenthesis. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald: 131 USPQ 74 (Bd. App. 1961); Ex parte Hall. 83 USPQ 38 (Bd. App. 1948);

recites the broad recitation polysaccharides and the claim 4 also recites hydrolyzed



Art Unit: 1761

starches, microbial polysaccharides, "etc...., which is the narrower statement of the range/limitation, claim 5 recites" plant fibers" which is the broad recitation and then "wheat fibers, Citrus fibers etc". which is a narrower recitation, claim 6 recites "nutrients", which is a broad recitation and then recites "vitamins, minerals", etc. which are a narrower recitation of the broad limitations. Carotenoids and flavonoids are also narrower limitations which should be removed or put in dependent claims.

Claim 11 is indefinite in that there is no antecedent basis in the claim for the phrase "then freeing it from solvents or dispersion media". Also, claim 11 depends on claim 1, but the process will not make a product which contains a core surrounded by an active substance which is encapsulated by a shell forming substance because claim 11 requires that the active substance is mixed with the shell-forming substance and claim 1 requires that the active substance is encapsulated by the shell forming substance.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ueda et al.



Art Unit: 1761

combined with a filler such as the crystalline cellulose and gums and then coated with chitosan and a fatty material to make a shell (col. 3, lines 65-68 and col. 4, lines 11-70). The fiber is considered to be the crystalline cellulose as cited in claim 5. The biologoically active substance can be vitamins, minerals, antibiotics (claim 6). Claims 1, 2,4, 5 and 6 differ from the reference in whether the chitosan is a shell forming material. However, it is known to be a polysaccharide derivative as in claim 4 which can be a shell forming material. Therefore, it would have been obvious to make the composition as claimed.

Claim 3 requires that the shell substance form a stable complex with the core material or active substances. As the claimed composition has been shown it is seen that there is a stable complex, particularly as the composition remains intact all the way to the abomasum (abstract). Therefore, it would have been obvious to make a stable composition.

Claim 7 requires that the food component is a spherical or polygonal shape and is from 1 micron to 200 microns in size and claim 8 that the core content is from 10-90% in weight and claim 10 that the shell material is a particular amount. A sphere is disclosed in col. 4, lines 41-49, and the size can be from 5.5 mm to 5 mm (col. 6, lines 11-18). The coating can be from 10 to 60% which would allow for the core content to be within the claimed amounts. Therefore, it would have been obvious to make the product in a spherical shape in the claimed size with the claimed core content, and coating



Art Unit: 1761

Claim 9 requires particular amounts of the biological substance which is seen as being within the skill of the ordinary worker to vary depending on the type of active ingredient. Therefore, it would have been obvious to make a composition containing particular amounts of ingredients.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 6 are rejected under 35 U.S.C. 102(a) as being anticipated by Ghani.

Ghani discloses a core material of corn cob which is coated with a biologically active substance (enzymes- claim 6) and encapsulated by a shell forming material as in claim 1, the dietary fiber is cellulose (as in claims 2 and 4, i. e. corn cob material) (abstract and col. 5, lines 45-60).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8 and 9, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable

cob cellulose (abstract and col. 5, lines 45-60). Claims 8, 9 and 10 further require



Art Unit: 1761

particular core contents and particular amounts of active substances and shell contents. It would have been within the skill of the ordinary worker to determine the claimed amounts based on the particular ingredients. Therefore, it would have been obvious to use particular amounts of ingredients to make the claimed composition.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ghani as applied to claims 1, 2, 4, 8, 9, 10 above, and further in view of Ardaillon et al.

Ghani discloses a process of making a microgranular enzyme by combining ground corn cob (cellulosic material) with liquid cellulase and a binder which is hydrolyzed starch to make granulates and then coating with xanthan gum. Claim 11 differs from the reference in the steps of mixing the biologically active substance into the shell forming substance and then adding the fiber and in freeing the mixture form solvent. However, Ardaillon et al. disclose that it is known to mix an active substance into the coating material (shell) (col. 3, lines 16-24). No solvent materials are cited for removal. Therefore, it would have been obvious to add the active substance to the shell material for its known function and then at the cellulosic material as shown by Ghani.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen F. Pratt whose telephone number is 703-308-1978. The examiner can normally be reached on Monday to Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's



Art Unit: 1761

number for the organization where this application or proceeding is assigned is 703-305-7718.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Hp 6-6-02

HELEN PRATT PRIMARY EXAMINER